



DCP-H

The Exhibitor's Choice for Digital Cinema

The Christie DCP-H cinema system is a powerful digital cinema projector utilizing the latest advancements in DLP™ Cinema Technology (the only digital advanced technology to be endorsed by Hollywood) to offer a truly cinematic experience for digital movies.

Christie is the preferred choice and solutions supplier to the world's foremost exhibition communities and the world's single source in manufacturer of cinema projection products for 35mm and Digital Cinema. It's no surprise; of the thirty-two Texas Instrument DLP™ Cinema reference sites, thirty-one use Christie's cinema lamphouses.

The DCP-H provides natural film-like, 24 frames per second motion images without jump, weave, fading, flicker or ghosting, filling the entire cinema screen with consistently bright, high quality images. From a movie's premiere to its one thousandth screening - the movie remains digitally perfect each and every time.

As the first DLP™ Cinema licensee, Christie has developed a 3-DMD™ "Digital Micromirror Device" assembly that insures superior image stability and offers improved projection performance at higher illumination levels.

Christie maintains a proud heritage in mainstream film production, a heritage that includes awards from the Academy of Motion Picture Arts and Sciences for our 35mm gearless film projector and endless-loop film system (ELF).

Christie - The Exhibitor's Choice for Digital Cinema.

- Advanced Ethernet Touch Screen Control Panel with comprehensive set-up and diagnostic capabilities
- New color management system guarantees consistent image quality and color accuracy
- Better than release print quality
- High native contrast ratio 1350:1
- A proven, reliable cinema lamphouse and pedestal design
- Connectivity to the majority of theater automation systems (TAS)
- Supports new file format inter-operability with existing servers
- A complete range of zoom lenses for a wide range of cinema applications
- Optional Cine-IPM accommodates the input of non-cinema content analog/graphic or HDTV sources
- Lamphouse and pedestal provide for angle and leveling adjustments

APPLICATIONS

- Cinema and post-production houses
- Multi-media theatrical productions
- On-screen advertising
- Other large entertainment venues


Project. Present. Perform.

DCP-H • Specifications

Cinema Head

- Light output meets SMPTE standard 12fL (film 16fL open gate) for screens 16m (up to 50ft width)
- Contrast (sequential) 1350:1 (full white/full black)
- ANSI 460:1
- Brightness uniformity within 90% displaying full white screen
- Pixels 1280 x 1024 per Red, Green and Blue channels; equivalent to 3.9 million pixels
- Digital Micromirror Device SXGA DLP™ Cinema (Black Chip) DMD™ light Engine
- Cooling: 3-chip liquid cooling system and heat exchanger
- Color Processing Bit Depth 45-bit (3 x 15-bit resolution)
- Number of colors: 35 trillion

- Safety interlocks operating side door, non-operating side door, intake blower, exhaust stack
- Indicators: three phase power, interlock OK, DC current, DC voltage
- Douser: closed switch N.O. single contact tilt switch for power supply
- Manual controls: DC on, ignitor strike, hand douser open/close
- Lamp adjust motorized three axis, 0.5" range all axis
- IGA-15M ignitor 50-80kV ignition pulse, 200A DC rating, auto-strike, time-out feature
- Input connector 10 position clamping screw terminal, 20A @ 115 VAC rated, 10AWG max wire gauge
- Lamphouse weight: 170 lbs (77.1 kg)
- Cooling: forced air

DCP - Touch Screen Controller

- Display 5.7" QVGA Touch Screen Panel
- Width 7.7" (195mm) / Height 5.8" (148mm) / Depth 1.6" (40mm)
- Weight: 1.57 lbs (0.8 kg)
- I/O 1 ethernet port (10 base-T)
- Power input 24 VDC, 2.2A maximal
- EMI FCC Class B certified
- CE certified
- BSMI certified

System Level Specifications

- Ambient system operating temperature: 10°-40° C
- Overall system dimensions: 24.5" W x 62" L x 72.8" H
- 62.2cm W x 157.5cm L x 184.9cm H

FEATURES



- Connectivity to the majority of theater automation systems (TAS).



- A proven, reliable cinema lamphouse and pedestal design.



- The DCP-H provides natural, film-like, 24 frames per second motion images without jump, weave, fading, flicker or ghosting.

Digital Video Input (Cinema Head)

- SMPTE 292M (all interfaced sources are encoded with 3:2 pulldown)
- SMPTE 274M: 1920 x 1080i in 60Hz interlaced, 1080 24p or 24psf
- SMPTE 260M: 1920 x 1035i in 60Hz interlaced
- SMPTE 296M: 1280 x 720p in 60Hz progressive
- Graphics port (DVI) Digital Video Interface
- Zoom lenses variable focal length, either 2.0 = 3.2 or 3.2-5.6 throw ratio
- Anamorphic Lenses 1.5x squeeze, 1.9x squeeze attached with twin lens adapter
- Weight: digital head and anamorphic lens holder (without lenses) (39.7 kg) 100 lbs

Lamphouse Model SLH-D

- Power Range 4-7kW operation
- Xenon Lamp type CXL-4.0, CXL-4.5, CXL 6.0 lamps
- External extraction required 4.5kW = 550-600CFM, 6kW = 750-900CFM
- Input AC power 115 VAC, 3A
- Input DC power 26-37 VDC, 90-180A
- Reflector type 16" compound, f/1.5, DCC coated

Pedestal Specifications

- 7kW Thyristor KCX-180CR three phase input 180v/240v, 32A or 380v/440v, 16A
- Output current: 100-190A
- Output voltage: 32-41 VDC
- Standby mode range: 20-140A
- Power supply weight: 200 lbs (91 kg)
- Cooling: forced air
- Ambient temperature: 0-40° C
- Breakers 30A (<4kW) or 40A (4-7kW) three phase for power supply. 15A single phase for other breakers
- Pedestal weight: 197 lbs (90 kg) W/O power supply
- Input connector: 6 position (three phase/neutral + ground)
- Downward tilt 6 degree internal, additional with leveling feet
- Other: 4" C casters, leveling feet, blanking panel is for sides and rear, locking hinged access door, internal or external mounting of water circulator
- Internal rack space 4RU from operator side, 4RU from rear

Safety

- CSA C22.2950 (M94) approved to UL 1950 by NRTL (Semko) EN60950
- EMC: FCC Part 15 Class A Conducted Radiated Emissions
- CISPR 22 Class A Conducted Radiated Emissions
- EMC Immunity: EN55024

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Designed under ISO 9001

DLP
CINEMA
A TEXAS INSTRUMENTS TECHNOLOGY

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